

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8 999 18TH STREET - SUITE 300 DENVER, CO 80202-2466 http://www.epa.gov/region08

SDMS Document ID

April 6, 2004

Ref: 8EPR-SR

Michael W. Fraser Thomas, Dean, & Hoskins, Inc. 690 North Meridian, Suite 101 Kalispell, MT 59901

RE: Johnston Acres Water and Sewer Project

Dear Michael:

This letter is to provide information and guidance regarding your future utility work in the Johnston Acres area of Libby, MT. Your planned project with the City of Libby is within the area of concern for the Libby Asbestos Superfund Site and it is possible that you may encounter soil containing vermiculite or other asbestos containing material during your work. We appreciate your early request for information and your proactive approach to dealing with potential soil contamination. If handled prudently, I expect your work would be affected only minimally.

As Attachment 1 of this letter, I have included all of the sampling and visual inspection information we currently have available for the project area. The majority of this information was collected during a study entitled the "Contaminant Screening Study (CSS)." The CSS was the first phase of a detailed Remedial Investigation of the Libby area. During the CSS, EPA visited nearly all properties in the Libby area and conducted interviews, visual inspections, and soil sampling. The purpose of the CSS was to collect readily available information and classify all properties in Libby as (1) requiring cleanup, (2) likely not requiring cleanup, or (3) needing additional investigation to aid in decision making. Outdoor areas were inspected and sampled; 0-6" below the surface of garden, flowerbed, and driveway samples, and 0-1" below the surface of yard soils. No observations were made or samples collected for any outdoor soils below these depths.

EPA used several criteria to interpret the results of the CSS. These criteria are set forth in a recently published document entitled "Technical Memorandum, Action Level and Clearance Criteria, Libby Asbestos Site." I've included a copy of this memorandum (Attachment 2) which may help you interpret the results of the information we provided, as well as helping you design any future inspections, sampling, and work practices. You should pay particular attention to the section addressing soil action levels and rationale.

Measuring asbestos in soils, and assessing risk from those measurements, is not straightforward. There are many uncertainties, and the situation in Libby is somewhat unique. Given what we know at this time, the Technical Memorandum clearly explains our current criteria for action in outdoor soils for Libby. Our response depends on many factors including the nature of the material itself as well as the potential for exposure to the material. Our guidelines can serve as a basis for your own program and decisions, recognizing that in most cases you will be working outdoors in a well-ventilated area, for a limited time, and in soils that are at depth or will remain below hard surfaces. Applying the decision criteria we've developed to your work leads to the following basic principles:

- Significant soil contamination is generally limited to areas where contaminated materials were placed. This means contamination is usually found in specific areas where Libby asbestos containing materials were used or deposited, such as in a particular yard, garden, or area. We have not seen a pattern of aerial deposition. Most soils in Libby are thus free of contamination, at least down to the levels we are able to measure. In most circumstances, but not always, high levels of asbestos are associated with contamination that one can see. We shape our work based on this basic principle.
- Soils with substantial amounts of visible vermiculite or vermiculite mine waste, or with sampling results showing levels of Libby asbestos of greater than or equal to 1%, are considered to be highly contaminated. These soils should be avoided if possible, or if not possible, treated with extreme caution and handled as hazardous, asbestos-containing material. Even short-term exposures to these materials are likely to cause excessive risk. If available, sampling results are considered more accurate than visual inspection, but sampling is not always practical or necessary.
- Soils with lesser amounts of visible vermiculite or mine waste, or soils with sampling results showing levels of Libby asbestos less than 1%, are considered to be significantly contaminated. In general, these soils should be treated with caution and handled with care, but are of lesser concern, especially for short-term exposures. However, when we deal with these materials, we generally treat them the same as heavily contaminated soils mostly because of the frequency with which we encounter them. Again, sampling results are more accurate than visual inspection.
- Soils with lesser amounts of visible vermiculite or mine waste that also have sampling results showing no measurable Libby asbestos, are still considered likely to contain low levels of Libby asbestos (e.g. cannot be measured at current detection limit). In general, these soils may present some risk, but relative to the other categories, are of less concern. These soils should be handled with basic precautions.
- Soils with no visible vermiculite are generally considered free of contamination.

 Again, a sample result for such soil would be more definitive.

We recommend that you review our sampling information, and develop a preconstruction sampling program to augment that information as necessary to support your work. For instance, our sampling data may suggest that a particular yard contained visible vermiculite, but you may wish to visit that yard to look closely at the specific area of excavation and/or collect samples. Similarly, we did not generally sample below hard surfaces such as roads, or in many right-of-ways. Occasionally we have found that underground piping was "packed" with vermiculite. You may want to perform exploratory inspection and sampling in areas that you know will be excavated. Conducting inspection and/or sampling before you work may allow you to avoid areas of contamination or be better prepared for areas you must work in. How, and if, you conduct such sampling is up to you.

Your work plan and approach should contain plans for dealing with the situations above, including contingencies for unexpected contamination. The materials you encounter need not be removed if they are contaminated, though this may be preferable in some situations. At a minimum, the work approach should ensure that workers are protected from exposure, that applicable legal requirements (if any) are satisfied, and that contamination does not migrate. In general, EPA will not be able to assist you with cleanup or protective measures during your work, and you will have to deal with any situations you encounter. You are welcome to review our relevant documents on work approach, health and safety, equipment and personal decontamination, and other aspects of our cleanup operations to aid in developing your plans. We've also developed a fact sheet for Libby residents entitled "Living With Vermiculite" (Attachment 3) that addresses short-term exposures such as you may encounter.

While we likely will not perform any response actions to aid in your work, EPA will assist you in several ways, just as we will assist residents of Libby facing similar situations:

- We will have representatives available to help you assess situations or interpret sampling data. We can provide guidance based upon our experience in Libby, recognizing that you ultimately are responsible for the work.
- We can provide guidance on sample collection and analysis, and you may utilize our labs (at your cost) for analysis of any soil or other samples you collect.
- We may collect and analyze soil samples at our discretion to aid in assessing the situation.
- We would like to have some of your workers wear a personal air sampler throughout the project. We will collect and analyze these samples at no cost to you. This will ensure significant exposures are not occurring and provide us valuable data for future decision making.
- Though again, the work is your responsibility, we will assist you in ensuring the work is conducted safely.
- If disposal of small amounts of soil is necessary, you may utilize the EPA-operated asbestos cell at the Lincoln County Landfill. If larger amounts need to be disposed of, we would need to discuss disposal at the former vermiculite mine.

Most soils in Libby are free of contamination. However, there are certainly areas of concern, and it pays to be cautious and proactive. Libby asbestos is particularly toxic and should not be treated lightly. It is likely that, at most, you will encounter soils with low levels of potential contamination. These situations can be dealt with easily through simple and practical means, such as keeping the area wet during work. If you do encounter highly contaminated soils, you may be able to plan or work around them. If not, your work need not stop, but there would likely be additional costs and delays to get the work done safely. If you encounter a very unexpected and severe situation, we will work with you to develop a plan and may be able to assist you in responding.

We look forward to working with you and the City of Libby further on the Johnston Acres project. If you have additional questions, please feel free to contact me at (303) 312-6748.

Sincerely,

Jim Christiansen

Remedial Project Manager

Attachments (3)

Johnston Acres Project vermiculite assessment map and spreadsheet --

Explanation of the spreadsheet and map:

All exterior areas on a property were inspected in accordance with the directives of the EPA Libby Asbestos Project. Sample collection was conducted for all yard soils, while flowerbeds and gardens were sampled if no visual vermiculite was observed. (There are occasional exceptions to this rule, but in general any flowerbed or garden with visible vermiculite is not sampled, and soils are removed).

Outdoor areas were inspected and sampled; 0-6" below the surface of garden, flowerbed, and driveway soils, and 0-1" below the surface of yard soils. No observations were made or samples collected for any outdoor soils below these depths.

The spreadsheet indicates the two types of information obtained during inspections:

- Visual Vermiculite Inspection and;
- Sample Result Information

 NOTE Where samples were collected but have not yet been analyzed, it is indicated on the spreadsheet as sample results "pending".

	Spreadsheet Le	egend							
NA Not Applicable									
ND	Non-Detect*								
TR	Trace *								
<1	less than 1 percent by weight*								
>1	>1 greater than 1 percent by weight*								
Map and Spreadsheet Color Codes No Information Available Yellow									
Remo	oval Complete	Red							
AND:	sual Vermiculite, sample results I Non-Detect	Green							
Visual Vermiculite and/or Sample Results available									

How to Use the Map:

The map represents the Johnston Acres work zone. Properties are color-coded according to the type of information available (see table). Use the spreadsheet to review information for a particular property.

^{*}Samples are analyzed for Libby Asbestos minerals

Color Chart(s)

The following pages contain color that does not appear in the scanned images.

To view the actual images, please contact the Superfund Records Center at (303) 312-6473.

_		 	Mail	le Vermiculite I	nanastian					Sample Desuit In	la matta a	·· ··-	
Address - Johnston Acres Project		Flowerbed	Garden	e vermiculite i Yard	nspection Former	Other	Sample Result Information Sample Comments Flowerbed Garden Driveway Yard						
Add	ress - Johnston Acres Project	riowerbed	Garden	i iaid	Garden	Other	Results Received	Comments	Flowerded	Gartien	Diveway	1910	
1302 1304 1306	Airth Ave Airth Ave Airth Ave	x			į	driveway	NA Yes Yes	Removal Complete	ND ND	ND	NĐ	ND TR, back yard	
1305 1309	Airth Ave Airth Ave	x	x	×]		Yes Yes			ND		TR, back yard ND	
1303 1321	Main Ave Main Ave	×	х	ļ			Yes Yes		ND ND		ND ND	ND ND	
1409 1411 1421	Main Ave Main Ave Main Ave					perimeter area	Yes Yes NA	Removal Complete	ND		ND ND	ND ND	
1511	Main Ave #2						Yes	Trailer Park	ND, front and side yard	ND, side yard		ND, front & side yard	
1511	Main Ave #6						Yes	Trailer Park	ND, front and side yard		ND, front yard	ND, front and side yard	
1511 1511 1511 1511 1511 1511	Main Ave #9 Main Ave #12 Main Ave #13 Main Ave #14 Main Ave #17 Main Ave #20	-			- - - - -		NA NA Yes NA Yes NA	No Information No Information Trailer Park No Information Trailer Park No Information	ND, back yard			ND, all yard areas	
1613 1615 1619 1621	Main Ave Main Ave Main Ave Main Ave	X	×	X	x		Yes Yes NA	No Information	ND TR, front yard	ND <1	TR, front yard ND	TR, back yard ND	
1021	Corner of Main Ave and W. Balsam St (Libby Cycle)			х	+an	N. side of property & Driveway	Yes	Removal Complete			ND	TR, front side yard & side yard S	
1024	Montana Ave - SL John's - KVCS		<u> </u>				NA.	Removal Complete					

			Visit	ole Vermiculite in	spection		Sample Result Information						
Addr	ess - Johnston Acres Project	Flowerbed	Garden	Yard	Former Garden	Other	Sample Results Received	Comments	Flowerbed	Garden	Driveway	Yard	
028	Montana Ave	ł					Yes					ND	
104	Montana Ave	x	x	x			Yes	No totomostico	ND]	ND	ND	
108 118	Montana Ave Montana Ave		Ι,	I W. Yard Excavated	.		NA NA	No Information Removal Complete					
120	Montana Ave	1	× '	X I	'		Yes	Removal Complete	ND	1	ND	TR, back yard	
204	Montana Ave	1	•	l x 1			Yes		L		1	ND.	
20 4 212	Montana Ave		i	1 ^ !			No	Pendina				1	
214	Montana Ave	l x	1 x	x			Yes	, chang				ND	
218	Montana Ave	×	×	×			Yes		TR, front & back yard	<1, S, E, & W of house	TR, under carport	ND	
302	Montana Ave	x	I	I 1	1	driveway	· Yes		· [I	l ND	
302 312	Montana Ave	^	l x	1	-	unveway	Yes		ND	}	ND	TR, back yard	
322	Montana Ave	1	^				No	Pending	, RD	ļ	, no	IN, back yard	
	Montana Ave) ×	I	1	х	,	Yes	l í	TR, back yard	2, former		TR, front, side yard	
108				! !			ļ			garden			
114 120	Montana Ave Montana Ave	X	×		x	stockpile	Yes Yes		ND	<u> </u>	ND TR, side yard	TR, side yard	
	Pine Court	1	i	1 I			No	Pending		1 .			
	Pine Ct] x	×		walkway at N. side of house	No	Pending]			
16	E. Balsam St		×		x .		Yes		ND		ND	. ND	
02	W. Balsam St #1,2,3,&4	1	1	1 I			No	Pending		I		•	
)4	W. Balsam St		1				NA	No Information					
	W. Balsam St		1	i I			Yes		TR-back and			ND	
)6 10	W. Balsam St	×	x	1			Yes		front yard		ND	<1, back yard	
2	W. Balsam St) x̂) x	1			No	Pending]	110	TI, Dack yard	
	W. Balsam St	ļ x	×	×		driveway	Yes	highest of CSS		l		<1, side yard	
03	W. Balsam St	l x	1	x			Yes	and PDI	TR-back,			ND, back and front yard TR, side yard	
11	IVV. DaiSam St	1 ^		_ ^ _			l res		front,side yard			in, side yald	
8	W. Balsam St	1	×				Yes	.		<1 .			
0	W. Balsam St	X		X, N. yard		walkway under porch	Yes	highest of Phase I, CSS and PDI	ND	<1	ND	3%, yard composite <1, walkway	
							1					-	
	W. Balsam St	. x] ".	x		•	Yes		<1, flower	[ND	<1 front yard	
3	l	1 .	1	, ,		_	1	l	garden				

4/6/2004

			Visit	de Vermiculite i	nspection					Sample Result In	formation	
Add	ress - Johnston Acres Project	Flowerbed	Garden	Yard	Former Garden	Other	Sample Results Received	Comments	Flowerbed	Garden	Driveway	Yarđ
233	W. Balsam St						NA	No Information		'		
108 112 118 124	W. Cedar St W. Cedar St W. Cedar St W. Cedar St	X	x x	×		potting soil pile No visible vermiculite	Yes Yes Yes Yes	ND	ND	<1	ND ND	ND ND
109 115 121 125	W. Cedar St - Church Residence W. Cedar St W. Cedar St W. Cedar St	x x	×	×		carport	No NA Yes No	Pending No Information Pending	ND			ND
208 220 225 237	W. Cedar St W. Cedar St W. Cedar St W. Cedar St	×			. x	back yard flower garden	NA No Yes Yes	No Information Pending	TR, side yard	TR, front & back garden	ND	ND ND
102 108	E. Larch St	l İ	i !] 	 	1 1	No Yes	Pending	 	l I]] ND	ND ND
203 104 110	E. Larch St W. Larch St W. Larch St		1	 	 	1	Yes Yes Yes		l ND	l ND	ND	ND ND ND ND
109 131 123	W. Larch St W. Larch St W. Larch St	x x	x x	x	x	no soil samples laken driveway No visible vermiculite	Yes Yes No	Pending	ND	<1	ND TR, front driveway	ND ND
200 210 214 222 236 240	W. Larch St - Christ Lutheran Church W. Larch St	×	x	. x _			Yes No NA Yes NA NA Yes	Pending Interior Only Removal Complete Interior Only	ND <1, house flowerbed	ND ND		ND ND ND, shed
221 233 237	W. Larch St W. Larch St W. Larch St	x			X	owner statement	Yes NA Yes	Interior Only	ND ND	-	ND.	ND ND
103 115	E. Oak St E. Oak St			-			NA Yes	No Information	ND		 ND	ND

CDM Confidential 4/6/2004

	 -		Visib	le Vermiculite li	aspection		Sample Result Information						
Adı	dress - Johnston Acres Project	Flowerbed	Garden	Yard	Former Garden	Other	Sample Results Received	Comments	Flowerbed	Garden	Driveway	Yard	
117	E. Oak St						Yes		ND		ND	ND	
103 109 113 119	W. Oak St W. Oak St W. Oak St W. Oak St		<u> </u> 				No NA NA No	Pending Removal Complete Removal Complete Pending					
103	E. Poplar St		-				No	Pending				1	
110	E. Poplar St	x	x	l 1		l	Yes		ND	1	ND	<1, front & side yard	
109 113 121	W. Poplar St - St Luke's Episcopal W. Poplar St W. Poplar St	x x		х			No Yes No	Pending Pending	ND		ND	ND	
103	W. Poplar St W. Poplar St						NA Yes	No Information				TR, E yard nearest road TR, E yard behind garage TR, front yard hedges/shrubs	
206 210 218 220 222	W. Poplar St	x .	X		<u> </u>	rock garden	NA Yes No Yes NA	No Information Pending Removal Complete	TR, front back, side yard ND	ND	ND ND	ND <1, basement	
201 205 219 221 223 237	W. Poptar St W. Poptar St - Saint Luke Episcopa W. Poptar St W. Poptar St W. Poptar St W. Poptar St	Church	x x	X X			NA Yes Yes Yes Yes Yes	No Information	ND ND	<1	ND ND ND	ND ND <1 ND ND	
111 113 115 117 119	W. Spruce St W. Spruce St W. Spruce St W. Spruce St W. Spruce St	X		x		No vermiculite observed	Yes Yes Yes NA NA	ND No Information	TR, back and front yard ND	ND	ND NĐ	ND ND	
201 205 213	W. Spruce St W. Spruce St W. Spruce St	×		×		waikway- gravel area	Yes Yes NA	Pending	ND TR, front,back and side yard		ND	ND ND	

		<u> </u>	Visit	de Vermiculite l	napection		Sample Result Information							
Addr	ess - Johnston Acres Project	Flowerbed	Garden	Yard	Former Garden	Other	Sample Results Received	Comments	Flowerbed	Garden	Driveway	Yard		
3	Spruce Ct.							No Information						
1205	Washington Ave Washington Ave	x				driveway	Yes Yes		ND TR. back and	ND		ND		
1211 1215	Washington Ave						No	Pending	front yard	ND	ND	ND		
1217	Washington Ave	l	ĺ	×	[l	No	Pending		Į.				
1304	Washington Ave	1		1		clay covered LVI	Yes				TR, front driveway	ND, all yard areas		
1308	Washington Ave					clay covered LVI	Yes				TR, front driveway	ND, all yard areas		
1310 1316	Washington Ave Washington Ave	_ x		X	l x	dirt floor of cellar	No No	Pending Pending			·			
1303 1305 1309	Washington Ave Washington Ave Washington Ave		. N	E Yard Excevat	l led		NA NA NA	Removal Complete No information No information						
1408 1412	Washington Ave Washington Ave			•		driveway	NA Yes	Pending	ND		ND	ND		
1409 1417	Washington Ave Washington Ave	· ·					NA.	Removal Complete	, ,		ا سرت نید تا	.		
·	Alley 108 Alley 110					No vermiculite observed Vermiculite observed -adjacent to 1212	No No	Pending Pending						
	Altey 111					Montana Vermiculite observed -adjacent to 1303	No	Pending						
	Altey 113					Washington	No	Pending						

TARGET SHEET

EPA REGION VIII SUPERFUND DOCUMENT MANAGEMENT SYSTEM

DOCUMENT NUMBER: 2030989

	DOCUMENT NOMBER.
SI	TE NAME: LIBBY ASBESTOS
D	OCUMENT DATE: 04/06/2004
D	DOCUMENT NOT SCANNED ue to one of the following reasons:
	PHOTOGRAPHS
	3-DIMENSIONAL
Ø	OVERSIZED
	AUDIO/VISUAL
	PERMANENTLY BOUND DOCUMENTS
	POOR LEGIBILITY
	OTHER
	NOT AVAILABLE
	TYPES OF DOCUMENTS NOT TO BE SCANNED (Data Packages, Data Validation, Sampling Data, CBI, Chain of Custody)
DO	OCUMENT DESCRIPTION:
	PROPERTY MAP (COLORED)